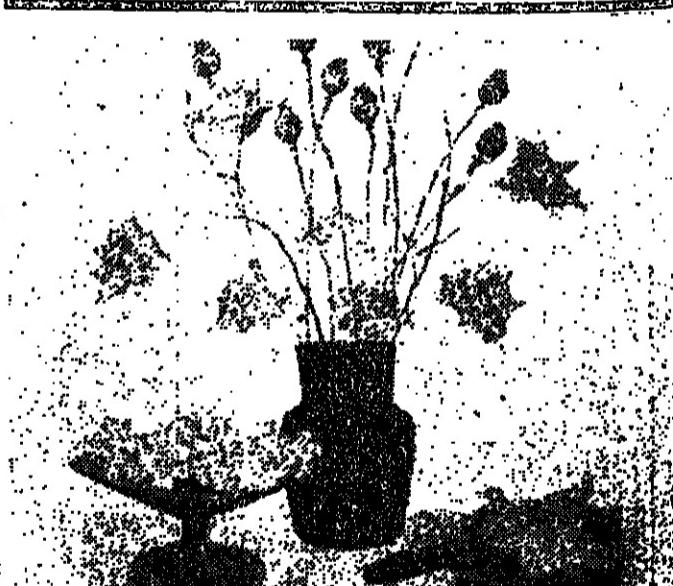


There are few contemporaneous Romanian painters who became so popular relatively early as Constantin Piliuș did. Born in Botoșani in 1929, he studied at the Bucharest Fine Arts Institute with Alexandra Clucureanu, one of the painters who created a real post-war school. In fact, today, in Romania, among various schools of painting there is also a "Clucureanu" trend with highly original features. Of course, in the case of this adept of this trend, it is not a matter of simply imitating the maestro's style. Piliuș learned Clucureanu's lesson as well, that he has allowed himself, in time, to be himself, to firmly impose his personality. He discovered himself slowly and serenely, at the end of an enormous work. In spite of the fact that popularly attended him from his first public events. Those who know him well, those who have often passed the threshold of his studio know that the undisputable talent of the artist is coupled with hard work, although each of his works seems to be the fruit of spontaneity. His paintings and drawings — recognizable at first sight — express his world view, the figurative "betrayed" by the image of certain effects specific to modernity. What strikes in his canvases is the lyrical, uncommon atmosphere, often balanced by a shade of dramaticism. The cult of the landscape, his inclination towards nature, the psychological consideration of reality are major data characterizing the artist.

VLADIMIR UDRESCU ■
Reproductions after works by C. Piliuș: "Cetate Comună", "Tudor Argeș", (top), "Red Flowers", "Landscape" (centre left), "Mii at Botoșani", "Portrait" (centre right), "Self Portrait" (bottom left), "The Candlestick" (detail, bottom right).



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SCIENCE AND
TECHNOLOGY
CULTURE
ARTS

HIGH PERFORMANCE
SHIPS
(PAGE 8)
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A PLANT
OF GOOD HEALTH
(PAGE 9)

ROMANIAN NEWS

ELEVENTH YEAR
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PEACE FRIENDSHIP
FRIENDSHIP IN AFRICA

THE OFFICIAL FRIENDLY VISITS OF PRESIDENT NICOLAE CEAUȘESCU AND ELENA CEAUȘESCU TO GUINEA AND MAURITANIA

President Nicolae Ceaușescu of Romania together with Elena Ceaușescu paid an official visit of friendship to the Republic of Guinea upon the invitation of Lansana Conté, Chairman of the National Committee for National Recovery, President of the Republic of Guinea.

Under the token of the mutual wish to enrich the collaboration between Romania and Guinea, president Nicolae Ceaușescu and Lansana Conté had an exchange of views in connection with the development prospects of the relations between the two countries.

It was assessed that the steady promotion of the Romanian-Guinean collaboration in all political, economic, technological, scientific, cultural and other domains was in the interests and to the benefit of the two countries and peoples, of the general cause of peace, international understanding and cooperation.

Presidents Nicolae Ceaușescu and Lansana Conté instructed the members of the two delegations to analyze the ways to expand further the collaboration in keeping with the two countries' needs and development programs, requirements of economic and social progress of the Romanian and Guinean peoples, and that should also ensure fruitful collaboration on an international plane toward the settlement of the complex world issues.

In the Romanian-Guinean Joint Communiqué signed in Conakry by the two presidents, they reiterated the two countries' attachment to the observ-

(cont. on p. 3)



Nicolae Ceaușescu, Romania's President, together with Elena Ceaușescu paid between March 13 and 15 an official friendly visit to the Islamic Republic of Mauritania upon the invitation extended by Colonel Maawya Ould Sid'Ahmed Taya, Chairman of the Military Committee for National Salvation, head of state.

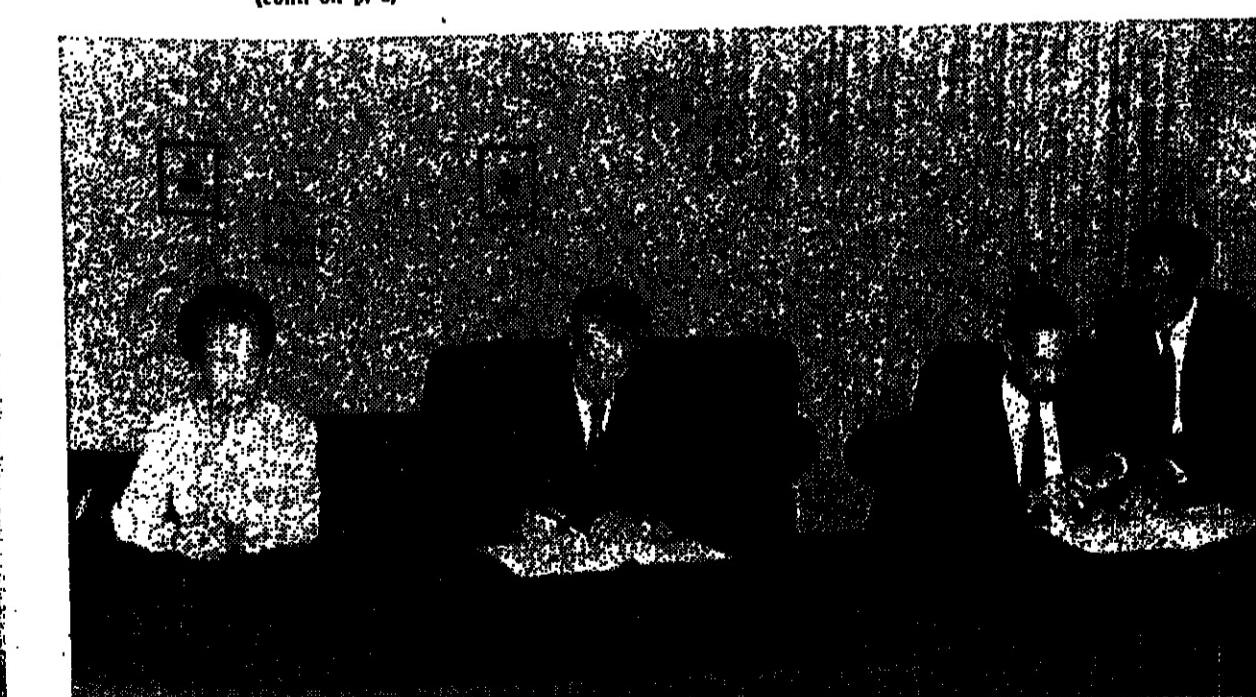
The two heads of state exchanged opinions on the course of the Romanian-Mauritanian relations.

In that context, the two presidents informed each other of the concerns and socioeconomic development prospects of their two countries. It was pointed out that the current economic potential of Romania and Mauritania, provided conditions of international cooperation, stability and exchange, was placed on the possibilities of expanding mutually advantageous collaboration and cooperation.

The Joint Communiqué, signed by the two heads of state shows that the two sides reasserted the resolve to intensify the relations between the two states based on fully equal rights, observance of national independence and sovereignty, noninterference in the domestic affairs, mutual advantage and on the right to development, in keeping with the aspirations of their people.

The two heads of state also highly appreciated the fruitful collaboration established between Romania

(cont. on p. 3)



A BALANCED
ECONOMIC
POLICY

SCIENCE AND
TECHNOLOGY
CULTURE
ARTS

ROMANIA IN THE WORLD • ROMANIA IN THE WORLD

ROMANIAN BUILDERS IN THE WORLD

Romanian construction-erection export began with the setting up in 1969 of the Romanian Construction-Erection Enterprise ARCOM. The aim of ARCOM's activity is the export of designs and the execution abroad of industrial, civil, socio-cultural and administrative construction works, the erection of plant and technological equipment and the provision of technical assistance for the execution of these works.

From project unitary of a civil and socio-administrative nature in West Germany, the enterprise's construction-erection export activity gradually expanded in that country, as well as to Austria, France and Czechoslovakia, to the Middle East — Iraq, Iran, Syria and Jordan, and to Africa — Libya, Sudan, Egypt, Algeria and Nigeria. Industrial construction and erection gradually assumed a more significant place in Romanian construction-erection export. The export of Romanian plant and technological equipment was facilitated by the signing, together with other Romanian foreign trade enterprises such as Uzinenexpolimport, Industrialexportrom, Mezinoxport and Romenergo, contracts for the further delivery of important industrial projects.

Consequently, along the years, the Romanian builders and erectors have left ARCOM's signature on the cement factories of Um-Qasr, Al-Qaim and Sinjar in Iran, that of Sheik Saïd in Syria and the one now being raised at Assuit, Egypt, the oil refinery of Banias, Syria, the modern steelworks in Baghdad, the cotton refineries in all in Kharoum, Sudan, the 16,000 t grain silo in Misrata, Libya; the pipelines of the Dunkirk refinery, France, the thermopower plant at Treboradec, Czechoslovakia, and many other projects.

In parallel, the skillfulness of the Romanian builders wearing the ARCOM emblem on their overalls has become known also through the construction of many schools, stadiums, hospitals, theatres, cinema halls, residential districts in West Germany, Libya, Algeria, Yugoslavia, Cze-

choslovakia and Sudan (including the house of parliament in that country).

The continuous development of the Romanian export of construction-erection led to the necessity of reorganizing this activity by the end of 1981.

The creation of the Department for Overseas Constructions in 1981 was aimed at better capitalizing the human and material potential existing in enterprises set up in foreign countries, the achievement of a qualitative and quantitative leap of the activity carried out on building sites erected in various states of the world.

The Department for Overseas Constructions, presently subordinated to the Ministry of Industrial Construction, was assigned the task of coordinating the construction-erection and land improvement activity unfolded abroad. In this way a unitary management was ensured of both ARCOM and ARCEP directly subordinated to the Ministry of Industrial Construction, and of other enterprises responsible to ministries undertaking construction-erection activities abroad.

As a result, many contracts were signed. Three times more contracts were signed in the last six years than in the eleven previous ones. Also ARCOM has managed to increase its activity in a number of countries two times larger than in 1981.

ARCOM wants to broaden collaboration with partners of developed capitalist states in mutually advantageous conditions. Also it has in view to carry out in the best conditions, new works resulting from the governmental accords concluded with developing countries.

On the other hand, ARCOM gives special attention to carrying out in the best conditions, works concluded with OMEC member states, like those being the object of governmental conventions concluded with the Soviet Union for exploiting gas reserves in Soviet Turkmenia and for the Iron Ore Plant of Krivoj-Rog, where ARCOM must execute an important volume of works with industrial character, as well as apartment buildings.

Thanks to the multitude of

varied works executed in conditions of special quality, the ARCOM firm is today a well known international contractor in the construction market in the Middle East, European and African countries. It presents its potential partner a wide range of services and is ready to negotiate new cooperation forms for works in the partners' countries or in third markets, in mutually advantageous conditions.

After 1981, the activity of ARCOM has seen a true re-evaluation and re-launching.

The building, designing and technical assistance for foreign countries are carried out on the principle of economic-financial and currency self-administration and self-management principle. They have in view the contracting and execution of the con-

TROPHY AND DIPLOMA OF HONOUR

A recent telegram received from London describes the ceremony occasioned by the award of important international distinctions — the Trophy for International Trade and the Diploma of Honour to the Bucharest-based Dunbras foreign trade enterprise.

It acknowledged the dynamism, promptness and competence proved by the Romanian organization in its relations with foreign trade partners — runs the telegram sent from London. The important distinction is awarded annually by the Spanish Editorial publishing house on the basis of recommendations made by firms from various countries on all continents. This is the second time the above-mentioned Romanian firm takes the important trophy for the promotion of international trade.

For their remarkable contribution to the development and diversification of world economic exchanges, to the expansion of bi- and multilateral collaboration on the economic and industrial plane, other Romanian foreign trade organizations won international awards, over the last years. Thus the Romanian ARCOM overseas construction-assembly enterprises is the holder of such distinctions — the International Promotion Prize and the Quality Trophy, awarded by the specialist institute in Geneva (housing units, socio-cultural and sports

Photos : Blocks of flats in Sachsenhütter Berg district, Frankfurt, West Germany ; construction of concrete poured in place, with rammed reinforced concrete wall, built for the DE-BA firm under a turnkey contract. Standard schools raised in Libya

struction-erection works abroad on the bases of Romanian designs and outlook.

The materials, plant and equipment and the other necessary products for the execution of the works are provided especially by our country, with a view to continuously expanding the export of Romanian pro-

ducts.

Special attention has been paid to the enterprise's long-term activity and to the conclusion of new deals. Over the last six years, after intensive tendering for projects totalling 5 billion lei, 16 were elaborated at ARCOM.

The fair of Dubai, Tripoli, Leipzig (spring edition) and Cairo where the Romanian products representing the main branches of the national economy were exhibited in three official pavilions opened the agenda of Romania's participation in the international fairs and exhibitions to be arranged in 1982.

Romania presents "40 years of international economic-commercial contacts" into consideration the important objectives facing this country's foreign trade in the third year of the ongoing five-year plan period (1982-1986), which stipulate the further expansion of commercial exchanges, of industrial and productive cooperation with other countries.

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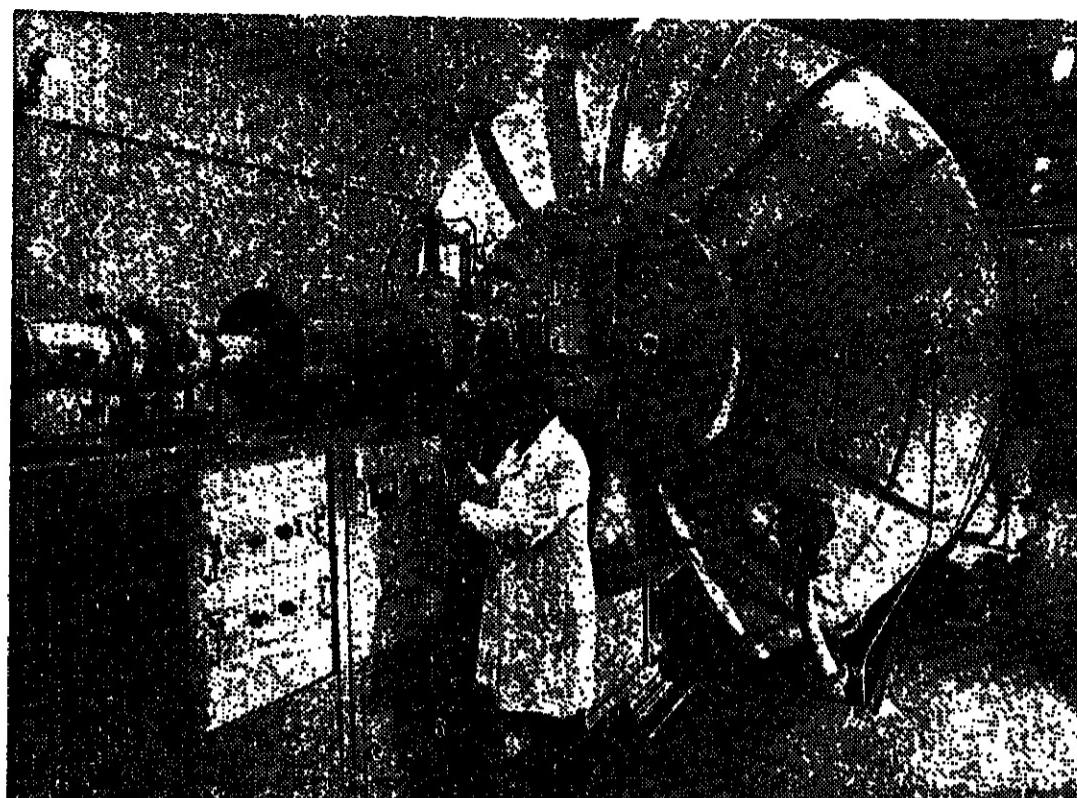
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SCIENCE AND LIFE

In 1988 Romanian science, fundamental and applicative research have to carry through important tasks as part of the economic programme and for the improvement of the living standard of Romanian society. The plan for the ongoing year

sixty million tons of conventional fuel; high-alloyed products are to account for at least 80 per cent of the overall production in the conditions of increasing the rolled goods coefficient; chemistry and petrochemistry will have to en-

The heavy equipment enterprise of Craiova has built a huge lathe, one of the few existing now in the world. Its technical name is SND 31.5/25 NC-2 and it can process parts with a 3.180-mm-wide diameter, measuring 30,000 mm in length and weighing up to 300 t. It does not tolerate more than one hundredth of a millimetre. It is a normal, double, heavy, special lathe with two headstocks and numerical control.

The drawings were drawn up by the Titan Institute of research, studies and technological engineering in Bucharest, for the heavy equipment works of Iasi. The documentation alone weighs as much as the forging which supervised the assembly works.

The place where it is to be installed will need a 15-m-thick reinforced concrete foundation. Its incorporation required 18 railway wagons. The lathe is as high a two-storey house and almost as long as a football pitch. The assembly of the heavy equipment regulated horizontally is of four hundredths of a millimetre in order to be ensured exactly account was taken even of the land owners which amounts to no more than three microns along the lathe. The final calibration is regulated with a laser interferometer.

Since the processing of such large parts is rare, the lathe can be turned into flexible machine tools; it can operate as two independent lathes for smaller parts.

The first parts to be processed by the super-heavy of Iasi are the columns of a 12,000-t-heavy press.

Until recently the petrochemical works of Borzești used rubber section by wasting a large quantity of methane. The scientists working with the design department devised an efficient and modern foaming solution apt to recover useful by-products which, until now, had been discarded.

At the same time the method conceived by the petrochemists of Borzești has helped reduce the annual consumption of methane by more than 2.6 million cu.m. in the conditions of using the foaming rubber section at its full capacity.

stipulates the conclusion of the second stage of programmes concerning the betterment of production, organization and modernization.

The efforts of scientific research, especially of the one directly linked with production, are to be focused on the following essential directions: the increase in the reserves of oil, coal, gas, oil and non-ferrous metals; the introduction of new technologies helping predict the targeted output of oil, coal, lignite and copper in concentrates and others, the oil and gas industry; to lay stress on increasing the oil output by applying technologies ensuring a final quality oil index; new solutions will be invented to ensure a good functioning of the national grid; in conditions of maximum safety, at the same time capitalizing on all the internal resources of energy, to save fuel, to expand the fields using new and renewable sources of energy; equating more

HIGHLY RESISTANT LOW-ALLOYED STEEL

This is the dream of any steel producer. The above title is in fact the name of an invention by a group of specialists from the Research, Technological Engineering and Design Institute for Hot Stacks in Bucharest. The purpose of approaching this theme was obtaining a material necessary for producing goaded anvils, moulds, which not long ago were imported, or a difficult, low productivity and therefore expensive technology was applied. A solution had to be found in that field, as these products were in high demand, raising the question of material consumption and obviously, of currency expenses. In fact the total cost of steel is of 900.4 million lei yearly, of which 26.6 millions result from the importation of material consumption, lower imports — four million lei, manufacturing economies — 1.8 million lei, etc. This invention attracted the attention of all economic units owing forging installations.

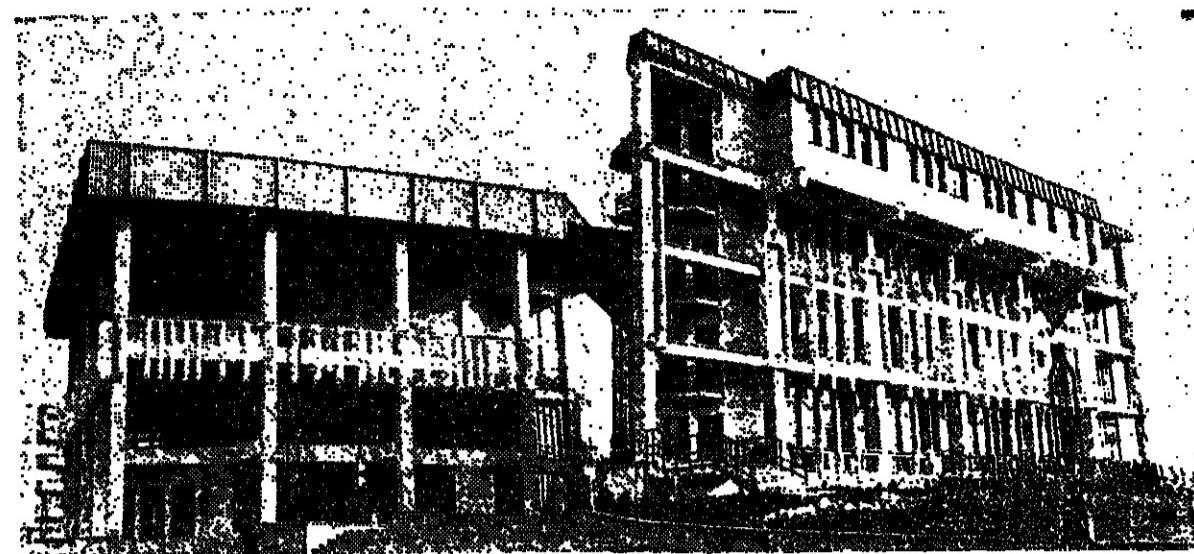


INDUSTRIAL HOLOGRAPHY

The centre of holographic research of the Politehnica Institute in Bucharest has worked a holographic interferometry assembling, a device which allows making some studies on the mechanical and thermal behaviour of photovoltaic, apparatus and instruments. The experiments done have shown great possibilities of improving the performances of some apparatus built on principles relying on this phenomenon.

By holographic interferometry, the specialists of the Bucharest Politehnica Institute have been able to establish a quantitative method of controlling the quality of number of wavelets, thickness, cavity diameter, working plates. The holographic methods devised here have been successfully applied in the tracing of foreign bodies in the parts to determine their position. Some of the technical components of double-exposure holography and holographic interferometry have been applied in the study of deformation of the cable induced by the load, the load being measured by the strain gauge.

Photo: Views from the site of the National Technical Institute for Higher Education and Research, a representative of the first-class plant in Craiova.



A NAME COMES INTO FASHION

In the last 20 years, 40,000 new apartments have been built in Bala Mare. The new districts have their own urban facilities — kindergartens, schools, polytechnics, cinema, halls, photo: the House of Culture, Science and Technology for Youth in Traian district.

Brilliant, Belgium, Canada, West Germany, the USA, the Soviet Union can be explained not only by the continuously updated designs, but also through their irreproachable quality.

ADINA PRISTAVU ■

A new name of a sheepskin has entered fashion collections — Napalm. Obtained through an original technology, the product is another achievement of the 1 Mai enterprise of Oradea. It stands out through a fine and elegant brilliance, carrying the same note of good quality and smartness specific to the classic "velour" which has won an international name for the enterprise, under the form of various ready-made clothes sold during the cold season. At the same time Napalm has a functional importance: impermeability. The new models of clothes and jackets made of Napalm attest to the specialists' efforts to create permanently a wide range of beautiful, modern, easy-fitting garments meeting the most exacting tastes.

After surveying the collection, engineer Constantine Orivel, director of the 1 Mai enterprise showed us the agenda of world model exhibitions to be attended by his collective. For documentation and prospection, the

Electroimis plant of Timisoara continues to apply an ample programme of modernization. Standing out among the recently assimilated technologies are the processing lines using nonconventional methods, multipurpose assemblies and subassemblies, general manufacturing lines, hydro-mechanical parts, axes, jacks and collars, welding, electro-technic winding and precision mechatronic equipment. A factory has been partially commissioned for the purpose of manufacturing cutting machines by electroerosion, industrial robots, other highly productive machine tools.

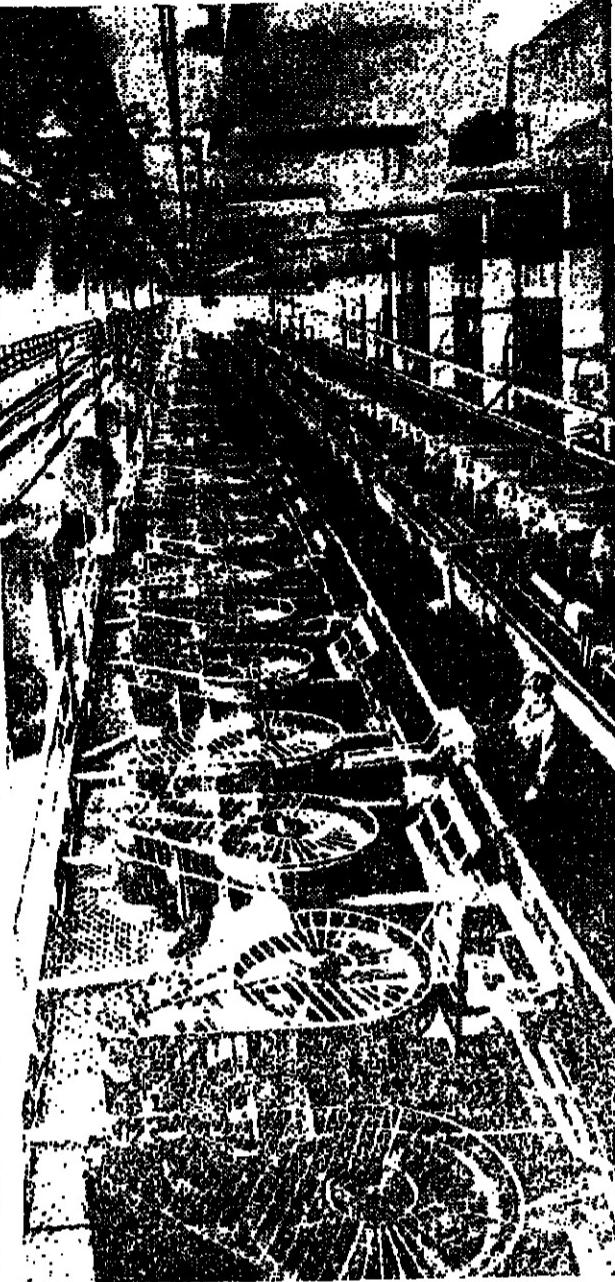
In these conditions, the specialized on groups of products. Each new product was discussed not only with the technologists but also with those preparing production and those who will produce them effectively. We've got many findings for simple things. Anyway, it is more advantageous to design twice than to series produce after a design insufficiently elaborated.

The fact that products of Electroprezziș's Skoda are superior to the old ones, and are not their constructive variants is proved by the fact that they export over 17% of their production. In 1987 alone, 11 inventions and 110 innovations, all applicable in the enterprise's activity, were presented for registration.

Mention should be made that out of 105 pieces of a new product, over 90 percent are already series produced.

The direct-current driven lathe built at SARO works in Tîrgoviște has for many years now revealed their advantages. The new types, manufactured in the R&D workshops of the enterprise, and then mass-produced, stand out through their world-level performance. They are conceived in a superior ergonomical design.

The generalization of computer use in preparing, managing and monitoring the production has led to a sizeable reduction of energy consumption per ton of product.

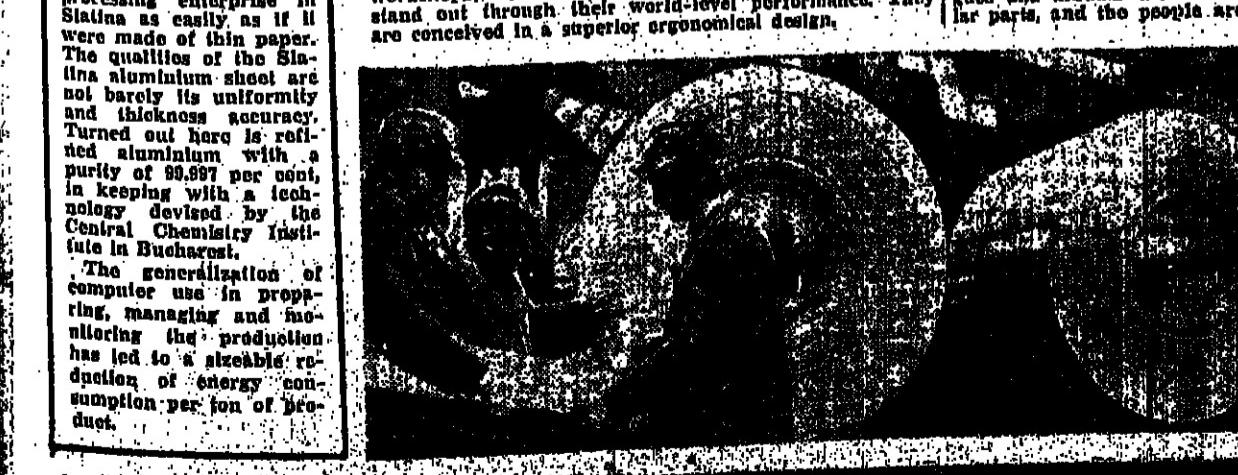


10 KILOMETRES = 30 GRAMS

A ten-kilometer-long yarn weighs 30 grams. The weaving was done in Vaslui town at the Moldova synthetic yarn plant. Besides their reduced weight, the yarns produced here are also characterized by fineness and resistance.

Made in a wide assortment (over 50 types), the Moldova yarns are exported to 30 countries in Europe, Asia, America and Africa. They are the ideal raw material for the producers of fine fabrics, technical yarns, clothing and footwear.

The outstanding success of the enterprise is due to director engineer Mircea Cioană — it is due to the latest technical equipment and the high training of the personnel. When spinning installations, for instance, reach speeds of up to 16,000 rotations per minute, it is no wonder that Moldova produces 200 million km of yarn annually.



A BALANCED ECONOMIC GEOGRAPHY



65,000 JOBS

Suceava is a symbolic name for the Romanians' medieval history. For nearly 300 years Suceava was Moldavia's capital. The history of the town which for a long time checked the invaders' attacks is closely intertwined with the country's history.

It is quite difficult to name the exact moment when the settlement on the bank of the Suceava river turned into a town. Archaeologists find that around 1300, the settlement became a defense system with ditches and a palisade. The urbanization process seems to have been very fast. One century later, the town lying on the road of European commercial importance linking the Banat to the provinces on the Danube's mouth and the Black Sea focused the economic life of a vast area. It is no wonder that meanwhile it had been reinforced with thick stone walls. Just like all major European centres, the first written attestation of the town of Suceava is rather late, dating back to 1383 (therefore exactly 300 years back), when Moldavia's ruler Petru I Mușat wrote a letter to Polish King Ladislaus Jagiello from that city. The letter contained the Moldavian ruler's agreement to lend his neighbour a large sum of money (the equivalent of 32 kg fine gold), which evidences Moldavia's great economic force.

Under Stephen the Great (1457-1501), the walls of the city were further enlarged, the Principality Court was rebuilt, new monumental stone constructions were raised. In 1476 the city was taken by Mohammed II, Constantinople's conqueror. The heroic resistance put up there and later made the town a symbol of the struggle for independence.

The remarkable medieval city was to become just a modest provincial town in modern times. In 1918, when the main production means were nationalized, the life of industrial units in Suceava was quite meagre: two windmills, a sawmill and sausages factory, an oil factory, two tanning houses, an electric plant, a slaughterhouse.

A picture of those days, preserved as a memento in mayor Mihai Gâinariu's office shows

seen deep-going material and spiritual transformations which have changed even the very foundation of the basis of the bourgeois conscience, their way of living and working.

A generous economic policy pursued by the harmonious, balanced development of all the country's areas drew northern industry to the whirlwind of industrialization. Especially in the last two decades Suceava has become a modern town of over 100,000 inhabitants.

Two vast industrial parks support, as two huge piers would, the town's economic life. They include modern industrial units of such essential branches as machine engineering, electrical energy, wood working, textiles, etc. Now in an advanced stage of construction is a modern bearing enterprise.

Present-day Suceava provides over 65,000 jobs in the most diverse professions. The industrial production has grown 50 times over 1948. Most eloquent is also the dynamics of various economic sectors of development. Compared to 1948, the output of the machine engineering industry has increased 8.5 times, that of the textile industry 3.1 times, of the chemical industry 3.1 times, and of the food industry 10 times.

It is well known today in the world that an expressive economic policy of broad opening and integration with the world market,

A MODERN TOWN CARING FOR ITS HISTORY

Lying in the floodplain of the Suceava, but also on the primitively filled, the town benefits by a pleasant, varied environment. Add to this was the architectural harmony of numerous buildings.

The indisputable advantage of having such an urbanistic downy has been turned to best account by the city fathers of today who have rethought the town's forms and spirit.

On the one hand, they protected and restored (at an impressive cost) the old medieval monuments while simultaneously archæological complexes, likely to put to advance the old arguments. On the other hand, they permanently planned the growth of the urban centres provided by Suceava's 650 inhabitants.

Today Suceava's technical solutions of the most advanced nature, and the most advanced techniques, harmoniously integrated, have achieved a unique and unique combination of ancient and modern architecture, resulting in a unique architectural achievement.

nearly explosive growth of the town was engineer Gh. Iacob, first deputy chairman of the municipal people's council.

"While around the year 1948 the town housed about 15,000 people in five centuries of history, it grew to nearly 60,000 in 1948 and reached 100,000 in 1955. In 1955, the town had over 100,000 inhabitants. This fast economic and demographic growth posed special problems.

In parallel with the construction of the large industrial units as well as schools, hospitals, sports grounds, etc., a new block of flats was built, consisting of 14 relatively large, identical housing complexes, each of them containing 1,400-1,600 flats. Out of these, 1,200 flats will be let to the town's inhabitants.

On the one hand, the planning of the town has to take into account the relief and natural environment, harmoniously integrated with the town's urban structures, providing a unique combination of ancient and modern architecture.

Thanks to its products, Suceava is thus an expressive town, a town that is actively involved in the life of the country, a town that is in close contact with the world market.

"Unanimously assessed as a successful architectural solution is the opening towards the surrounding nature of the town's main square, Ana Ipătescu boulevard too, with its high trees placed at junctions and its open spaces has a specific personality."

"Suceava today is an entirely new town, as more than 80 per cent of its inhabitants live in housing units built in the last 10 years.

"The town's new districts, adequately equipped from a social, administrative and cultural point of view, have determined a sensible growth of urban

comfort, a decisive factor in the rising quality of life. Numerous socio-cultural facilities, such as the House of Culture, Bucovina supermarket, Arcasul and Bucovina hotels, the county hospital, the astronomical observatory, the technological engineering institute, the municipal theatre and others attest the efforts to place the town's contemporary architecture in a continuous line with the local tradition."

"Looked at from above, when the plans describes an arc in order to enter the landing direction, the town seems to be pulverized in the middle of a huge park."

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CAN CLASSICAL PHYSICS BE UPSET?

Years ago, when he was not yet a doctor of science, professor Sorin Comorosan, a biophysicist of excellence, advanced an idea of brilliant common sense and simplicity: the phenomena occurring in the living world are so subtle that man-made apparatus cannot detect them, let alone measure them; in order to record the dynamic processes of the living world, which would be measured in angstroms, picoseconds and microvolts, we need living systems, living apparatus, the only ones capable of hearing the living world's heartbeat.

The professor imagined and built these apparatus.

THE EFFECT AND THE ANTEFFECT

Another exceptional step: an amazing experiment which demonstrates that the reaction of turning the substrate of an enzyme into another product with the aid of a catalyst — another enzyme — influenced by the green light having a wavelength of 548 nanometres. But the reaction is not influenced by accidental green light irradiations: it is only the irradiation of the substrate in multiples of five seconds that absolutely amazingly causes an acceleration of



THE PHYOTOSYSTEM

Physics seems to have been upset by the Comorosan effect, physicists and biologists all over the world have thought. Especially the plants of the living world seem no longer to be satisfied with old canons... A new physics is looming ahead, ready to attack! Therefore laboratory researchers have gone into offensive performing thousands of exotic experiments.

Professor Comorosan's team departed from the established line and took one step forward... The classical test, containing the substrate and the catalyst, was abandoned; but not the radiation on the 548 nanometre wavelength — this particular wavelength probably holds a part of the secret of the Comorosan effect. The step forward was naturally taken from the living, that is, to wheat. What kinds of rigorously checked genetic wheats were chosen (the Molovite site variety), equal in point of size and weight; after irradiating, they were laid by hundreds in Petri boxes arranged in concentric

circles, equidistantly, uniformly distributed within the lines of the terrestrial magnetic field. The experiment was carried out in the same temperature and lighting conditions, for two weeks. Every two hours plants were treated with one millilitre of solution in the following manner: in the first box simple water, in the second potassium nitrate solution, in the third potassium nitrate solution irradiated with green light for five seconds. In the fourth the same potassium nitrate solution, this time irradiated with green light for eight seconds (for the explicit purpose of underlying the importance of five seconds as the basic irradiation period). Samples were daily gathered in order to measure the length of plants, the fresh mass, the dry mass; many other characteristics were determined as well. The test was repeated four times and the data thus obtained was processed statistically, by means of a computer and software programs.

Potassium nitrate was finally

biochemistry magazines subsequently reporting the confirmation of that stunning phenomenon.

The second set of experiments (probably coming after the first few scores of thousands...) consisted in the intersection of the green light beam which was acting upon the substrate (causing the Comorosan effect) with a secondary green light beam perpendicular to the former.

The result: while the intervention of the second beam in accidental time does not alter the situation in the least, the irradiation in specific time, also a multiple of five seconds, neutralizes the Comorosan effect!

...Five seconds, multiples of five seconds, sequences of multiples of five seconds have therefore influenced an organic phenomenon — a phenomenon just outside the living world — and have continued to manifest themselves in plants, hundreds and thousands of tests, in Romanian and foreign laboratories, scores of physists, biophysicists and



HIGH PERFORMANCE SHIPS

• 165,000 dwt bulk cargo carrier

and the first river-going "roro" ship.

• Vertical welding without a welder.

• Mechanized design operations.

A real general headquarters

in designing sea- and river-

going ships, the specialized Galati Institute has brought the number of modernized products to 90 percent, Eng. Lucian Aburel, the director of the Shipping Research and Design Institute offered us some details.

"Among the novelties of 1987, I would mention the 165,000 dwt bulk carrier. For the readers less familiarized with technical details the bulk cargo carrier is a sea-going ship for cargo, having big capacity storage areas and loading-unloading

equipment. In the range of river-going ships we had an absolute first, the 1,800 ton "roro" ship also meant for cargo transport and a total of 3,000 bp, enriching the down of the Romanian merchant fleet on the Danube.

We should complete the im-

age formed by our interlocutor:

the Galati Institute can execute

studies and design works for

any kind of merchant ships,

sea- or river-going, for floating installations, off-shore drilling rigs included.

"In the technology domain,"

continued the institute's direc-

tor, "improvements should be made

of a research thomograph which has

preoccupied us lately and which

has been recently concluded —

the automatic vertical welding

system, a highly efficient mod-

ern method. At present, we

can deliver designs of automa-

tic welding lines and some in-

stallations made in the institu-

te's microproduction sections.

A new processing technology

for pipes, cables and mounting

installations for machine com-

partments were also designed.

Although formulated this way

for the specialists... strict me-

thod seems very impor-

tant. It is a well known fa-

tct that the pipe system, when

together with the cable and in-

stallation network ensure the

ship's good functionality, and

the pipe system must del-

icate piping, drains and excep-

tion works. That is why the in-

stitute has a section for the mi-

croproduction of design op-

erations where one can see what

the ship will look like. Eng. Radu

Gheorghe, the one who elabor-

ed the method, told us:

"The new design technique

allows the optimization of ir-

radiators, the pipes' prefabrica-

tion, the establishment of

the improvements of the pipe

mounting, etc., resulting in a

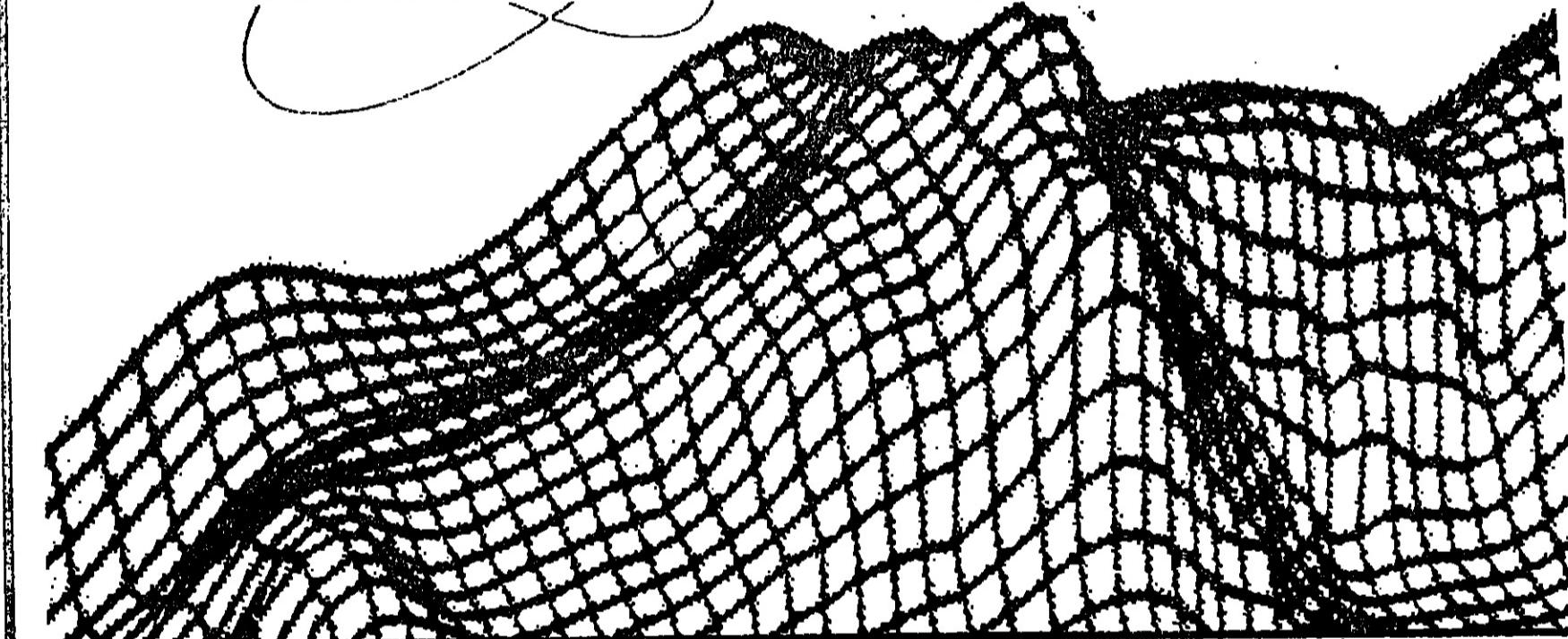
productivity increase of

almost 50 percent."

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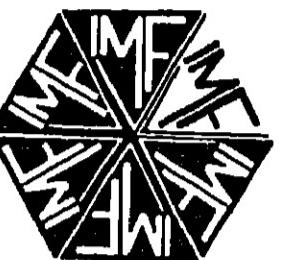
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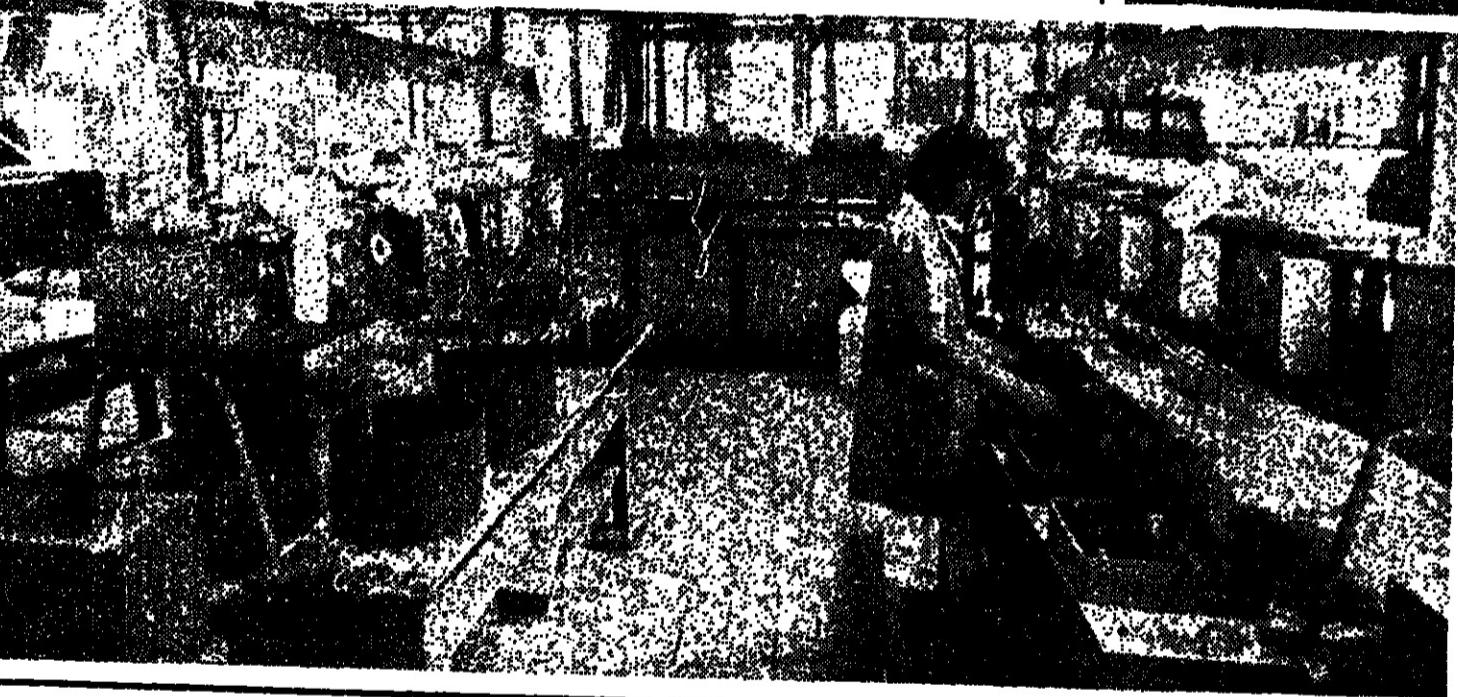
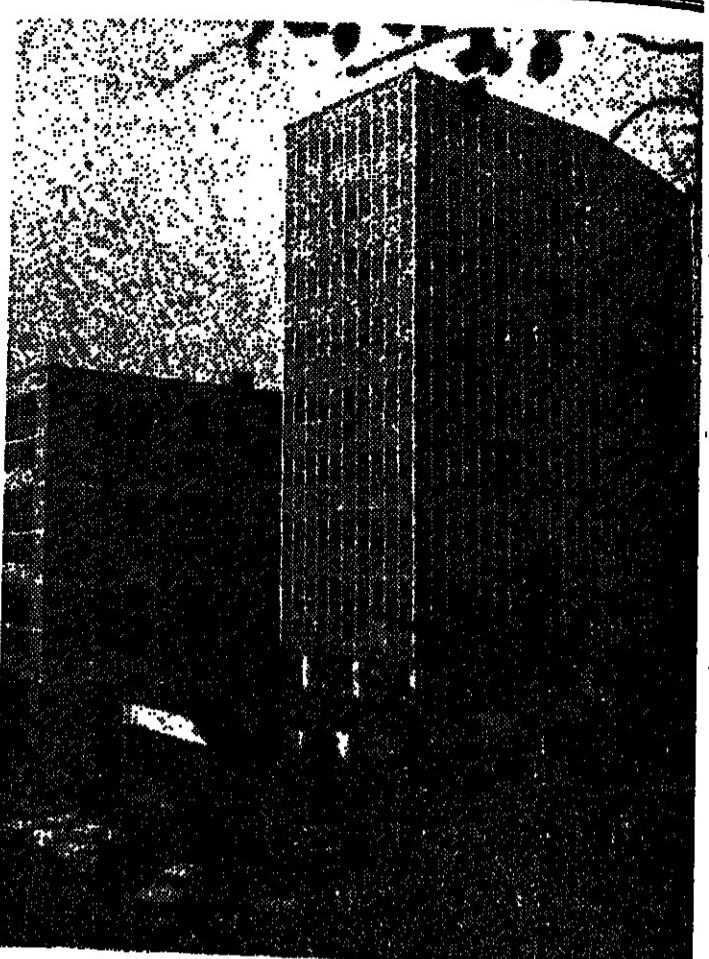
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MARCH 18
1988

THE FINE MECHANICS ENTERPRISE



The Fine Mechanics Enterprise of Bucharest, one of the big producers of measuring and gouging fixtures in Romania, offers high-accuracy devices for the measuring of external, internal, circular and flat dimensions, gear, surfaces and angles. Its manufacturing programme includes dial gauges and micrometer calipers with dial indicator, direct-reading and comparison measures

for bore-holes, passmeters and level micro-meters, thickness measuring devices, gear pitch error and thickness measuring fixtures, protractors and supports and accessories for these devices. Length measuring devices meet world quality standards and can compete with similar products made by traditional firms.



MEASURING AND CONTROL INSTRUMENTS

MEASURING AND DIMENSIONAL CONTROL INSTRUMENTS

- dial indicators
- bore checking and control instruments
- comparator instruments
- gear measuring instruments
- angle measuring instruments and apparatus
- surface measuring instruments
- supports and accessories for measuring instruments

APPARATUS FOR ACTIVE AND PASSIVE CONTROL BASED ON MODERN PRINCIPLES

- active control instruments for universal and surface grinding machines
- passive control instruments with electric contact and pneumatic transducers
- electronic apparatus for roughness control

The range of products includes 636 distinct families totaling some 22,000 standard sizes. Of them, 90 families of products have been assimilated of late, the share of the new and redesigned products being of over 20 per cent.

In order to achieve its programme, the Fine Mechanics Enterprise adopted and improved the latest technologies specific to each family of products. One of the many possible examples are the diamond wheels with galvanic bond for processing a wide range of materials. Starting from the technology bought from the Winter company of West Germany, the Fine Mechanics Enterprise has achieved almost twice as many families of diamond wheels than the licence initially contained. Among its performances we could mention the wheels for the electronic industry used for cutting integrated circuits, transistors and thyristor plates. The width of the cut is only 0.05 mm, which substantially reduces the waste of expensive materials resulting from cutting. We could also mention the diamond wheels with galvanic bond used for cutting synthetic resins, the wheels for processing sintered metal carbides, etc.

The front of the Rectorate for Industrial Control creates active efforts in the active control devices used directly on machine-tools. Intelligent device equipped with micro-computer and sensors, the

cure dimension accuracy, economy of time, giving automatic orders according to the programme.

The vocation for top performances in the twelve enterprises of the CIMF is solidly grounded on the activity of its own institute of research, design and technological engineering for fine mechanics and tools. A real centre of technical and technological creation, the institute supplies ideas and solutions to productive departments staffed with highly-skilled workers and technicians able to impart the highest quality to each product. The direct relationship between research and production, the continuous flow of information between those who design and those who execute provide the guarantees for the high technical level and accuracy of the measuring and control devices produced by the CIMF enterprises.



REMEMBER THE IMF TRADEMARK



IMF TRADEMARK

IMF is the mark you can see on all products turned out by Intreprinderea de Mecanică Fină (The Fine Mechanics Enterprise) in Bucharest. The fabrication programme of this enterprise which is one of the most modern in Europe includes the following groups of products:

- apparatus and mechanisms of industrial horology
- apparatus for the control of thermotechnical magnitudes
- automation elements for regulating pressure and temperature
- tools, de-

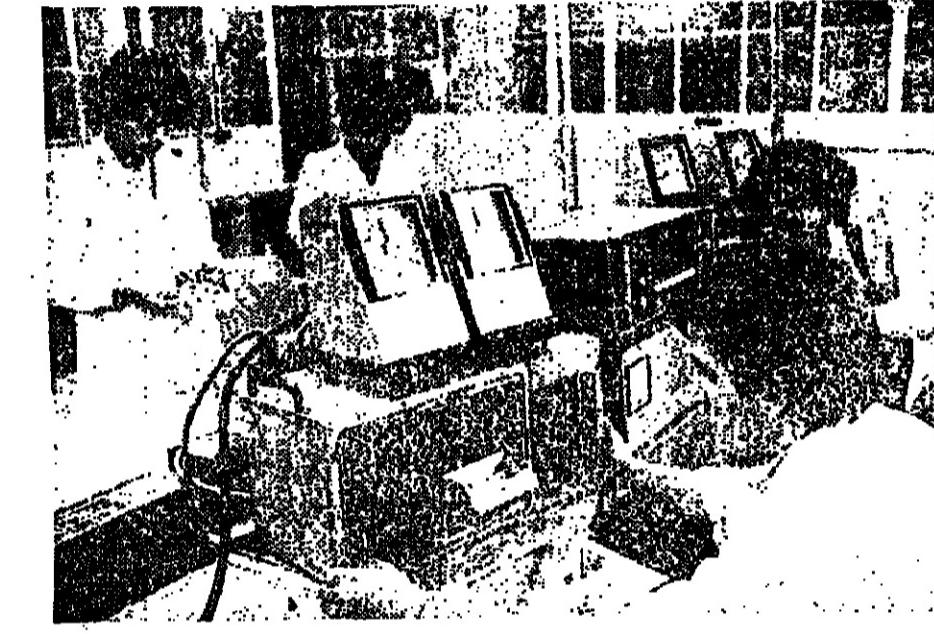
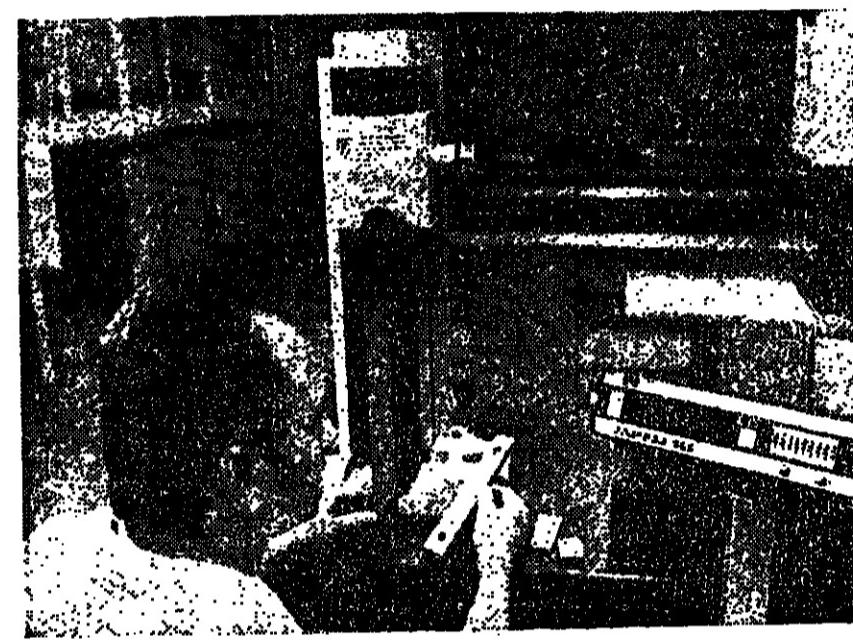
vices and matrices

● products of sintered metal carbides.

Superior accuracy parameters, high technical standard and complexity, a wide range of applicability, endurance, highly efficient constructional elements - these are some of the features boasted by the dimensional control and measuring instruments and apparatus and of the tools bearing the IMF mark. Do not forget: they impart superior functionality, maximum safety of operation, great productivity to your machinery

and installations, and a high quality to your products.

The tradition and vast experience amassed by the enterprise in its 30 years of existence, its contribution to making its partners' products profitable explain why the IMF products are in great demand in 35 countries on four continents among which Bulgaria, Czechoslovakia, Egypt, France, the GDR, People's China, West Germany, Liberia, the Netherlands, Poland, Spain, the USSR and the US.



HAND TOOLS, DEVICES AND MATRICES

DIAMOND TOOLS

- diamond tools monocystalline and polycystalline
- diamond tools for processing grinding stones
- diamond wheels with metal and organic bonds for processing hard and extra-hard materials
- metal-bonded diamond tools for special processing
- diamond drawing dies
- diamond pastes

ON THIS PAGE:

- vertical micrometre with electronic counter
- electronic speedographs for locomotives
- impulse electronic counter for counting machines
- projected microscope checks

ON THE ADJOINING PAGE:

- View from the galvanic workshop of the diamond tools section
- View from the length measuring and control apparatus section

MANUFACTURER: THE FINE MECHANICS ENTERPRISE

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FASHION ROMANIAN STYLE

ARPIMEX Foreign Trade Company is the sole exporter of Romanian leather goods — footwear, gloves, fancy leather goods, travelling bags, suitcases and the like, leather and fur garments — and supplier of raw materials — all kinds of fur and tanning chemicals — to the Romanian leather industry

ARPIMEX engages in trade on all continents: it has commercial relations with over 300 companies in more than 40 countries.

Every season we can offer you a wide choice of goods you certainly need.

IN WINTER

Velvet sheepskins, fur caps, expensive fur coats, high boots for men, women and children, ski boots, shale shoes, thick lined leather gloves.

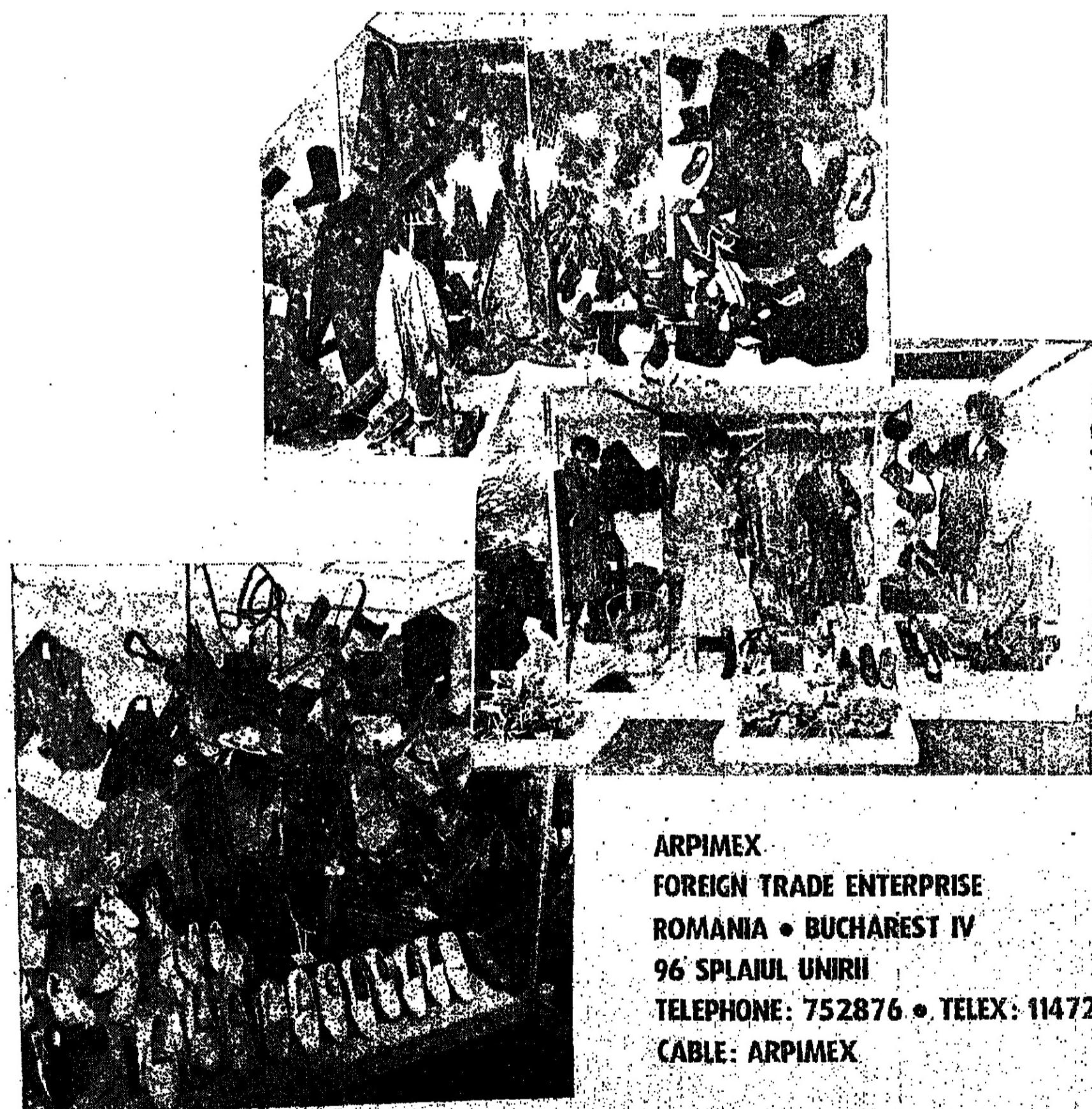
IN SPRING AND AUTUMN

Leather garments — shirts, pants, jackets, coats — gloves, fancy leather goods, slacks for men, women and children.

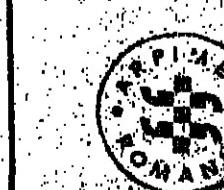
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A wide range of sport shoes, gloves and bags to go with them as well as horse-riding leather goods — from saddle and harness to everything a rider needs.

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- ASI three-phase asynchronous motors : output : 0.25-90 kw ; voltage : 220-660 v ; frequency : 50-60 cycles ; squirrel cage rotor ; mounting arrangement : B3 (DIN 42673) or B5 (DIN 42677) ; protection : IP44 (DIN 40050)

- AFI three-phase asynchronous motors : output : 0.5-90 kw ; voltage : 380 v ; frequency : 50-60 cycles ; wound rotor with permanently applied brushes ; mounting arrangement : B3 (DIN 42673) or B5 (DIN 42677) ; protection : IP44 (DIN 40050)

- ASA explosion-proof motors Ex d.IIB.G4 : output : 0.8-90 kw ; voltage : 220-660 v ; frequency : 50-60 cycles ; squirrel cage rotor ; protection : IP54

machines, vacuum cleaners, fans, coffee grinders

- Single-phase electric motors with centrifugal starting relay, 1 or 2 speeds, 0.25 kw/1,500 rpm, 220 v

- DC motors : MCG type - for general appliance ; output : 4 kw-280 kw ; MCU type - for machine tools ; output : 3.25 kw-200 kw ; Mill motors MCM type - series 802-808 ; output : 3.7 kw-75 kw

- DC motors with axial air gap and disk rotor, output : 180 w ; 370 w ; 750 w ; 1,200 w ; 1,500 w ; 2,200 w ; 4,000 w ; 5,500 w

- Welding converters : CS 125 A, CSCA 250 A, CS 315 A,



CS 350 A, CS 3 (350 A), CS 5 (500 A)

- Welding sets with Diesel engine - GST 350 A, GST 500 A

- General sets powered by Diesel engines stationary or mobile : 4 kva ; 7.5 kva ; 10 kva ; 18 kva ; 20 kva ; 38 kva ; 40 kva ; 60 kva ; 125 kva ; 150 kva

- Synchronous generators : 231 and 400 v, 50-60 cycles, of : 5 kva ; 6.2 kva ; 7.5 kva ; 15 kva ; 30 kva ; 38 kva ; 40 kva ; 50 kva ; 80 kva ; 125 kva ; 150 kva

- Medium-frequency converter sets : GEF-AV, 50 kw, 8,000 Hz ; GEF-AV, 55 kw, 8,000 Hz ; GEF-AV, 100 kw, 8,000 Hz ; GEF-AV, 110 kw, 8,000 Hz ; GEF-AV, 125 kw, 2,500 Hz ; GEF-AV, 300 kw, 2,500 Hz ; GEF-AV, 300 kw, 8,000 Hz

- Distribution transformers : rated power : 25-1,600 kva, rated voltage : 6-35 kv

- Power transformers and autotransformers : rated power : 2,000-400,000 kva ; rated voltage : up to 400 kv

- Medium and high-voltage

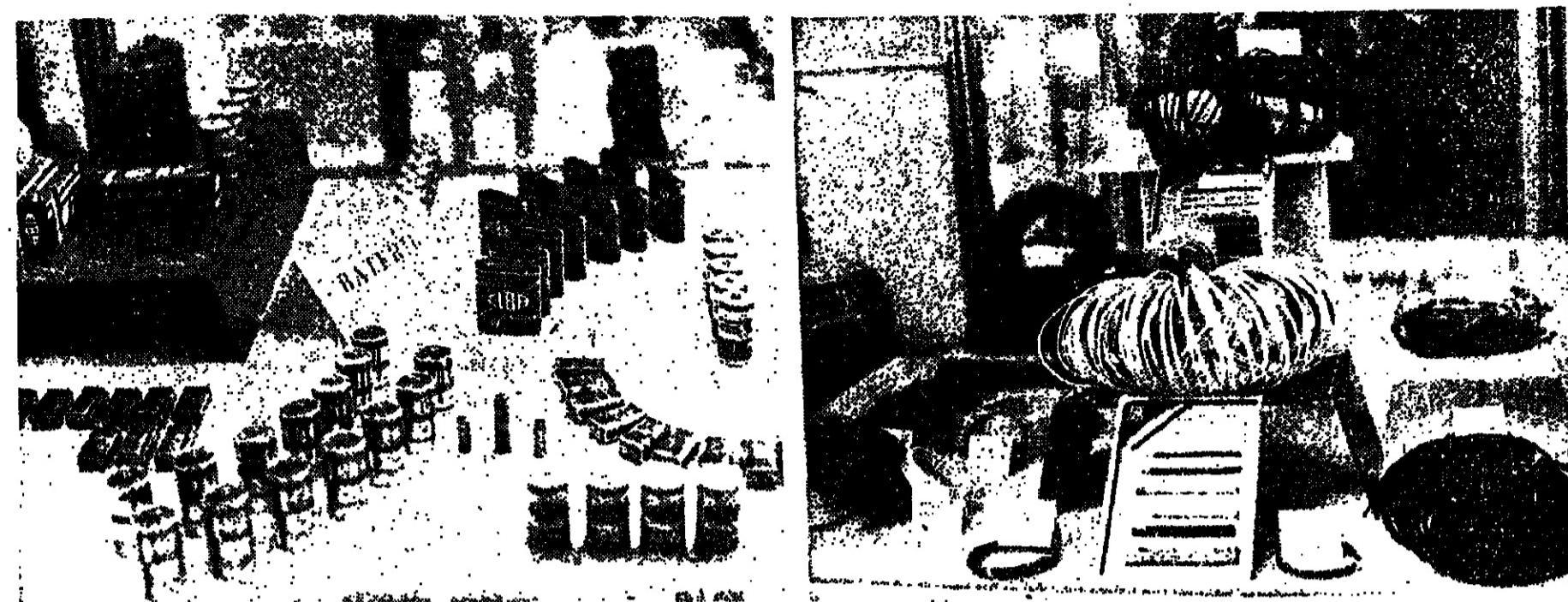
- circuit breakers : a) small oil volume, type IUP, rated voltage : 6-35 kv and 110 kv ; symmetrical breaking capacity : 250-3,000 Mva ; b) small oil volume, type IO (Delle Alsthom-France licence) : rated voltage : 6-20 kv ; symmetrical breaking capacity : 250-500 Mva ; c) ditto for the rated voltage of 66, 110, 220 and 400 kv ; d) oil contactor type CAM, 6-300 A

- Disconnecting switches : a) Indoor use (SMI-STI) ; rated voltage up to 35 kv ; rated current up to 6,300 a ; b) outdoor use (SME-STE-STEP) ; rated voltage up to 400 kv ; rated current up to 1,600 a ; d) indoor load-break switches, type STI ; rated voltage up to 20 kv ; breaking capacity up to 7 Mva (d) ; photography type PHAF-1-110/200

- Instrument transformers : a) current transformers : 1, plastic insulation (types CIS, CIT) ; 2, synthetic resin (type CIR) ; rated voltage up to 35 kv ; Indoor use : 3, ditto, types CIT, CIRTo, CIRTi ; 4, oil type (CESU and CESI) ; rated voltage up to 400 kv, for outdoor use ; b) voltage transformers : 1, synthetic resin (type TIRMo, TIRBo) ; rated voltage up to 35 kv

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VII ADVERTISEMENTS



or double phase build for indoor or outdoor use ; 2, off types (TEMU-TEBU and TECU) rated voltage up to 400 kv single or double-phase build for outdoor use

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- Indoor lighting fittings for fluorescent lamps

- Electric refrigerators with compressors

- Electric home appliances washing machines, oil radiators, electric hot plates, flat irons, vacuum cleaners, hair dryers, electric coffee grinders, turbine radiators, window fans, table fans, attachments set for MG4 drilling machines, other electric heating appliances, household electric pumps)

- Prefab cells for indoor use for transformer stations up to 20 kv

- Electric cables and conductors : Aluminum conductors for overhead lines ; Steel-core aluminum conductors ; Rubber-insulated-sheathed flexible cables, type NLH, NMH, NSH ; Copper and aluminum PVC insulated conductors according to DIN-BS-NF-VDE ; Telephone cables ; Signalling cables ; Copper and aluminum power cables, armoured and non-armoured, of 1.6 and 10 kv ; Insula-



tion : PVC, polyethylen, or paper (mass-impregnated, cord mass-impregnated-non-drieling).

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STEAUA BUCHAREST IN THE EUROPEAN CUP SEMIFINALS

Steaua Bucharest have qualified for the football European Cup semifinals, winning 3-2 their two-leg tie against Glasgow Rangers. After Steaua defeated them 2-0 in Bucharest, the Scots only managed an insufficient 2-1 win on Ibrox Park stadium in Glasgow. Before the match, Glasgow Rangers' player-manager Scouces

regular midfielder, solved many of the critical situations they were in.

It was the Romanians that opened the scoring. Stoica sent a long through pass to Lăcătuș, who scored, lobbing the ball over goalkeeper Woods. Four minutes later, Hagi entered the box, and was brought down by the Scotland goalkeeper, which should have prompted the referee to award a penalty.

After the two legs, Steaua go through 3-2 on aggregate. The team fully displayed their skill and spectacular combinations and were firm, accurate, economical in the defence compartment.

G. SERBAN ■

In the photos: The play of "Steaua" was not only spectacular, but also efficient. The three goals in the Glasgow Rangers net were a proof; (bottom): Pătrășcan, Iovan and Lăcătuș (the author of the goals).

THE JOY OF THE LAST SNOW

In the Carpathians, March is still a skiing season. Winter sports lovers, and not only they, know how to value this wonderful time when after a frosty night one can take off his ski suit at the very side of the ski run and sunbathe as if on a beach.

And, while resorts like Polana Brasov or Predeal have long won a good renown in any European tourist guide, others, who are as beautiful and well equipped, go, year by year, up the rungs of acknowledgement.

Durău stands out thanks to the beauty of its landscapes.

An 800-m long ski run and a ski tow line have been arranged here. Of course, there is also a skiing school for beginners with well trained teachers.

for Glasgow Rangers.

At the beginning of the second half, Hagi flew to consolidate their fragile lead, sometimes resorting to fouls and rugged tackling. But in the last thirty minutes Steaua appeared to be in control of the game. Hagi, Lăcătuș and Belodedici were close to scoring, in the 73rd, 75th and 80th minutes. In the 83rd minute Hagi entered the box, and was brought down by the Scotland goalkeeper, which should have prompted the referee to award a penalty.

After the two legs, Steaua go through 3-2 on aggregate. The team fully displayed their skill and spectacular combinations and were firm, accurate, economical in the defence compartment.

G. SERBAN ■

A direct road, shortening the way from Bleiești to Durău by 37 km, has been recently constructed.

• Vatra Dornei, famous ever since last century for its benevolent waters, for the smooth relief of the atmospheric malaise and its mild, equilibrated climate, is a wonderful land for winter holidays. The cable car going up 3,000 m to the crest of the Negru hill does not only lead to a delightful landscape, but also to a ski run. Another ski run is equipped with a ski lift running out 700 m. Down, in the neighbourhood of the hot water molecules, a skating rink has been arranged, and in the park of the resort, a new mineral spring has been collected.

• At Sinaia de Vale the ski run will also have a ski lift line this year. Classes for beginners of all age, have been organized here too, for those who want to practice winter sports.

ALEXANDRA CHIȘU ■



and Steaua were one of the four best European teams and considered it extremely hard to make up for the 2-0 first-leg defeat.

The game was harsh; the hosts' rough play however could not earn them more than a victory for the record. Steaua's qualification is a success of Romanian football, once again represented in the semifinals of the most important European club competition.

In the attack, Glasgow Rangers were much better than two weeks before, yet Steaua, though missing Dumitrescu, who

came round and launched a series of merciless attacks on Stoenescu's net. In the 18th minute the Romanian goalkeeper made a save, and Gough missed a header. The equalizer had a bizarre effect: the Scots Steaua defended themselves calmly and sportively. If situational. In the 31st minute, Durrant, one of the best players on the Scottish side, entered the box and fell, following a clash with Belodedici. Swiss referee Bruno Goller awarded a penalty kick to the hosts, who materialized it through McClelland. The score was 2-1.

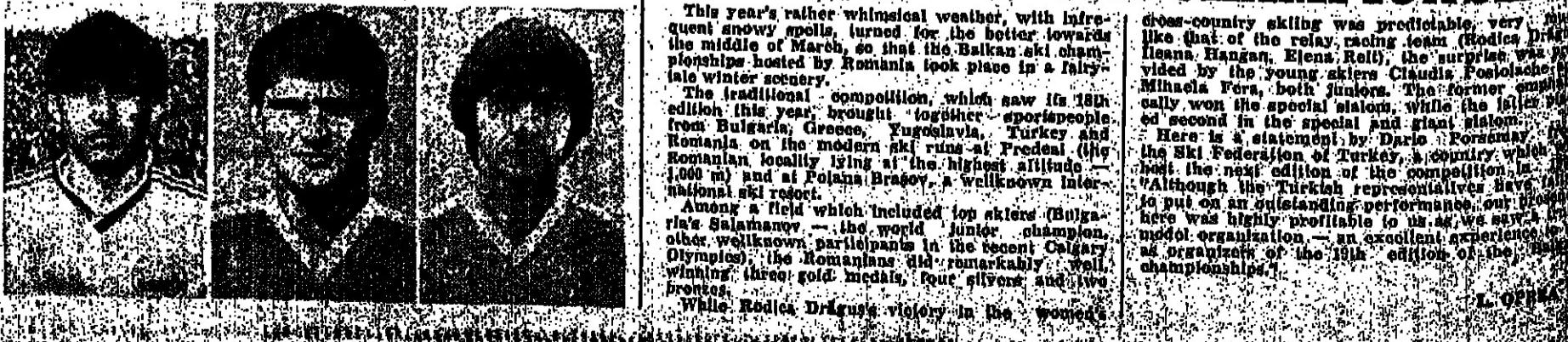
THE BALKAN SKI CHAMPIONSHIP

This year's rather whimsical weather, with infrequent snowy spells, turned for the better towards the middle of March, so that the Balkan ski championships hosted by Romania took place in a fairy-like outdoor winter scenery.

The traditional composition, which saw its 10th edition this year brought together sportspeople from Bulgaria, Greece, Yugoslavia, Turkey and Romania, on the eastern ski runs at Predeal (the Romanian locality lying at the highest altitude - 1,000 m) and at Polana Brasov, a well-known international ski resort.

Among a field which included top skiers (Bulgaria's Salamakov - the world junior champion, other unknown participants in the recent Calgary Olympics), the Romanians did remarkably well, winning three gold medals, four silver and five bronze.

The ladies' D-2 race victory in the women's



THE LITTORAL — A SOURCE OF GOOD HEALTH

• A health cure in the Romanian resorts strewed along the Romanian Black Sea coast can be undergone also during the cold season. • Whatever the season, the littoral can cure a large number of afflictions, but even more of them can be prevented thanks to important natural factors. • Eforie Nord, Neptun, Saturn, Mangalia and Mamaia — resorts and treatment bases opened all the year round

• For your vacations the Eforie Sud, Venus and Jupiter resorts lie at your disposal.

Having the shape of a huge arc covering almost 250 km, washed by the Black Sea, the Romanian coast boasts broad shores with fine sand, ultra-modern resorts built in a charming architectural style. There are no sources of pollution, many days are sunny, good for sunbathing, within medium ranges of temperature.

• MAMAIA, situated between the sea and the Mamaia lake, five kilometers north of Constanța, has a few kilometers of uninterrupted beach covered by extremely fine sand. An isthmus full of vegetation, washed by the sea and the Mamaia lake (especially designed for aquatic sports) com-

plex Nunta Zamfira (Zamfira's Wedding) which offers a rich folk programme.

In the vicinity there is the

TECHIRIOHOL therapeutic lake with sapropelic mud and water with a great concentration of salt.

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ROMANIA LITTORAL '88

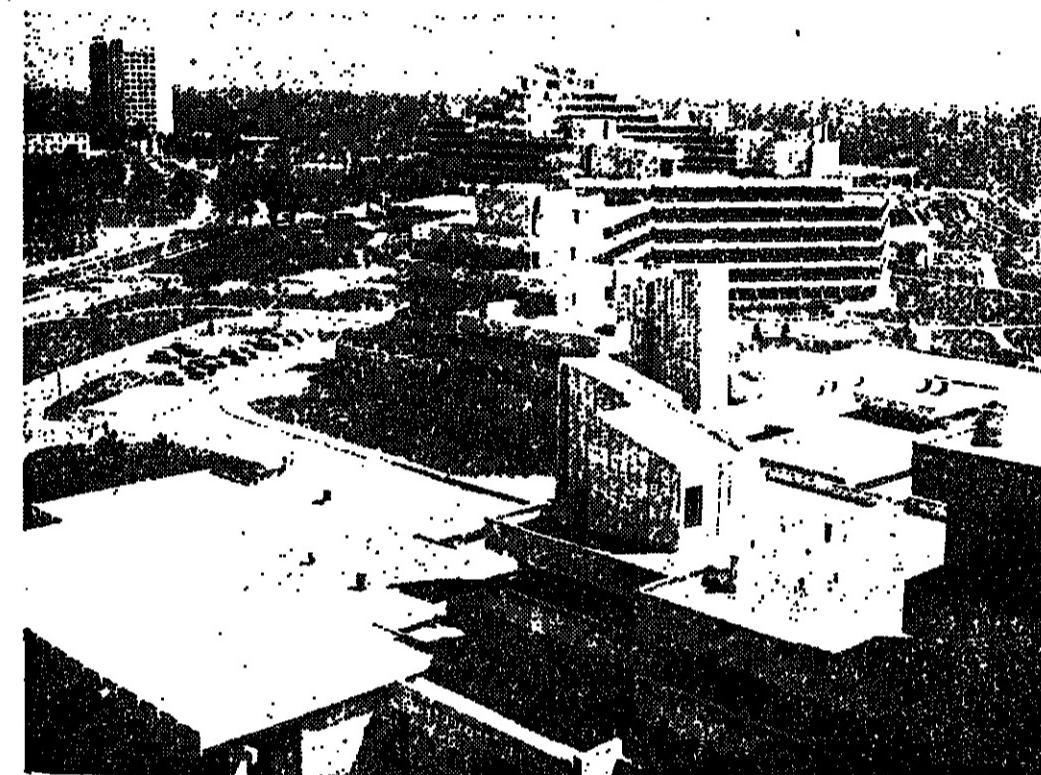
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— Dynamo sheet

— Reinforcing steel and rod wire

— Hot-rolled bars

— I- and channel bars

— Drawn bars

— Cold-rolled sections

— Weldless steel pipes

— Conduits, drain and extrac-

tion pipes

— Black and zinc-plated wal-

led pipes

— Drawn wire

— Welding electrodes

— Nails

— Metal cables

— Industrial chains

— Hauling steel ropes

— Aluminium ingots and con-

tinuous casting rod wire

— Prestressing wire

— Aluminium rolled and ex-

truded products : sheet

and bands, wire, rebars,

gaskets and discs.



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